

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/890836B

Source: \_\_\_\_\_

Date Processed by STIC: \_\_\_\_\_

# ***ENTERED***

# CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/890,836B

CRF Edit Date: 07-25-05  
Edited by: Kd

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

✓  
\_\_\_ Other: Inserted line explanation for Seq ID #s (4-7)

\_\_\_\_\_



IFW16

## RAW SEQUENCE LISTING

DATE: 07/25/2005

PATENT APPLICATION: US/09/890,836B

TIME: 11:20:35

Input Set : A:\pto.kd.TXT

Output Set: N:\CRF4\07252005\I890836B.raw

```

4 <110> APPLICANT: Andrew Bett
5     Volker Sandig
6     Rima Youil
8 <120> TITLE OF INVENTION: IMPROVED HELPER DEPENDENT VECTOR SYSTEM
9     FOR GENE THERAPY
11 <130> FILE REFERENCE: 20377YP
13 <140> CURRENT APPLICATION NUMBER: US 09/890,836B
14 <141> CURRENT FILING DATE: 2001-08-03
16 <150> PRIOR APPLICATION NUMBER: PCT/US00/02405
17 <151> PRIOR FILING DATE: 2000-01-31
19 <150> PRIOR APPLICATION NUMBER: 60/138,134
20 <151> PRIOR FILING DATE: 1999-06-08
22 <150> PRIOR APPLICATION NUMBER: 60/118,601
23 <151> PRIOR FILING DATE: 1999-02-04
25 <160> NUMBER OF SEQ ID NOS: 17
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 15
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Consensus sequence
W--> 37 <221> NAME/KEY: misc_feature
38 <222> LOCATION: (1)...(15)
39 <223> OTHER INFORMATION: n = A,T,C or G
W--> 41 <400> 1
W--> 42 atttgnnnnn nnncg                                     15
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 10
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Adenovirus 5
52 <400> SEQUENCE: 2
53 attttgtgtt                                             10
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 10
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Consensus sequence
63 <400> SEQUENCE: 3
64 attttgttgtt                                             10

```

## RAW SEQUENCE LISTING

DATE: 07/25/2005

PATENT APPLICATION: US/09/890,836B

TIME: 11:20:35

Input Set : A:\pto.kd.TXT

Output Set: N:\CRF4\07252005\I890836B.raw

```

66 <210> SEQ ID NO: 4
67 <211> LENGTH: 158
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Synthetic packaging signal
74 <400> SEQUENCE: 4
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76 gggccgagta agatttgacc gtttacgcgg ggactttgaa taagagcgag tgaaatctga      120
77 ataattttgt tgtactcata gcgcgtaatc tctagacg                               158
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 158
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: Adenovirus 5
87 <400> SEQUENCE: 5
88 gtacacagga agtgacaatt ttcgcgcggt tttaggcgga tgtttagta aatttgggcg      60
89 taaccgagta agatttgcc attttcgcgg gaaaactgaa taagaggaag tgaaatctga      120
90 ataattttgt gttactcata gcgcgtaatc tctagacg                               158
92 <210> SEQ ID NO: 6
93 <211> LENGTH: 65
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Linker
100 <400> SEQUENCE: 6
101 agctcggccg attattggcg cgccagatct gcggccgctt ctagaaacgc gtgaattcgg      60
102 cgcca                                                                    65
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 65
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Linker
112 <400> SEQUENCE: 7
113 agcttggcgc cgaattcacg cgtttctaga agcggccgca gatctggcgc gccaaataac      60
114 ggccg                                                                    65
116 <210> SEQ ID NO: 8
117 <211> LENGTH: 40
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: PCR Primer
124 <400> SEQUENCE: 8
125 attggcgcg cttctttctg ggatgattca gcacaaactc                               40
127 <210> SEQ ID NO: 9
128 <211> LENGTH: 41
129 <212> TYPE: DNA

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## RAW SEQUENCE LISTING

DATE: 07/25/2005

PATENT APPLICATION: US/09/890,836B

TIME: 11:20:35

Input Set : A:\pto.kd.TXT

Output Set: N:\CRF4\07252005\I890836B.raw

```

130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: PCR Primer
135 <400> SEQUENCE: 9
136 gatcgtcggc cgcttgggtc atagacttct ttgagaacca g      41
138 <210> SEQ ID NO: 10
139 <211> LENGTH: 41
140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence
143 <220> FEATURE:
144 <223> OTHER INFORMATION: PCR Primer
146 <400> SEQUENCE: 10
147 atcagttagc ggccgcacaa gctaagatca caaagctggt t      41
149 <210> SEQ ID NO: 11
150 <211> LENGTH: 37
151 <212> TYPE: DNA
152 <213> ORGANISM: Artificial Sequence
154 <220> FEATURE:
155 <223> OTHER INFORMATION: PCR Primer
157 <400> SEQUENCE: 11
158 tatggcgcgc cgctgacacc cagcctgggt gccggtg      37
160 <210> SEQ ID NO: 12
161 <211> LENGTH: 39
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: PCR Primer
168 <400> SEQUENCE: 12
169 tcgacgcgta gcgctgtgtg gccttggcag tttccatag      39
171 <210> SEQ ID NO: 13
172 <211> LENGTH: 45
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: PCR Primer
179 <400> SEQUENCE: 13
180 tcagtaatgc ggccgcggga tcattcctgg actcagattg ttctg      45
182 <210> SEQ ID NO: 14
183 <211> LENGTH: 41
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: PCR Primer
190 <400> SEQUENCE: 14
191 tattaaggcg ccgggcatgg gagtgatctc accaactctg g      41
193 <210> SEQ ID NO: 15
194 <211> LENGTH: 46
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence

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## RAW SEQUENCE LISTING

DATE: 07/25/2005

PATENT APPLICATION: US/09/890,836B

TIME: 11:20:35

Input Set : A:\pto.kd.TXT

Output Set: N:\CRF4\07252005\I890836B.raw

```

198 <220> FEATURE:
199 <223> OTHER INFORMATION: PCR Primer
201 <400> SEQUENCE: 15
202 tcgacgcgta tttaaatgtg ctggagtgtt gagatactgt agtggt      46
204 <210> SEQ ID NO: 16
205 <211> LENGTH: 28068
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Modified adenovirus
212 <400> SEQUENCE: 16
213 aaacatcatc aataatatac cttattttgg attgaagcca atatgataat gaggggggtgg      60
214 agttttgtgac gtggcgcggg gcgtgggaac ggggcgggtg acgtagtagt gtggcggaag      120
215 tgtgatgttg caagtgtggc ggaacacatg taagcgacgg atgtggcaaa agtgacgttt      180
216 ttggtgtgcg ccggtgtaca caggaagtga caattttcgc gcggttttag gcggatgttg      240
217 tagtaaattt gggcgtaacc gagtaagatt tggccatttt cgcgggaaaa ctgaataaga      300
218 ggaagtgaat tctgaataat tttgtgttac tcatagcgcg taatatttgt ctagggccgc      360
219 ggggactttg accggtttacg tggagactcg cccaggtgtt tttctcaggt gttttccgcg      420
220 ttccgggtca aagttggcgt tttgattcgg ccgcttgggt catagacttc tttgagaacc      480
221 agttataagc tatggtttct ctcacacaga aaagcactta tgggtgtctcc ccctttccag      540
222 ccaccaaaca ttttacctct aatttggggg ggttttctgg accacttaat acccatccat      600
223 ggatctcatg tgaagactcc cctggcttga gaaatcactg tcttgttgaa aatgggaaca      660
224 aagctaagtc agatagctgg ttcctcagca atgactttga ccaagcctga tcccacccta      720
225 cccaccccca cccagtgac cccccccac aatggagcac acaactctaa actggtttgt      780
226 aggtatgtgt gtgtgaacac gctgaggaat ctgcaaaacc aaatggtgag tgcaaaacca      840
227 aacagtcacg agtaaattct acaacaacca cgtcctgagc tgcagccctt gttgaactat      900
228 accccactag ggccccaaga ttttaggact tgtgtgtggg tgggacctcc cttttctatc      960
229 atgctttaga agacagggat ttcaccagaa ttgaacatat tgaacatatg acccattttt      1020
230 ttcagccaaa ggcaattaaa ataacttcat acttgatata catgtcagca aaagctgcaa      1080
231 aacgcaaatt ggtggctgct aagagccctg gtaccctgac gagcacacca agtgcttagc      1140
232 aacagtgggtg tccaaaggac cagctggaag cctgccttga tgagaagttg ctcttctttc      1200
233 tacatgaagg aacacctcta ctctcctgct ttttaacctt gagctgtgag tgatcatcta      1260
234 tgtccattag caaacatccc agtggagaag gaaacactca taccgaaat ctaagctaca      1320
235 tagttggaat cacttcaact tattgcaata aacacttact aagcacctat tgtgggcaag      1380
236 tctttgcaat ggataatagt tcagtagata ttttgatgta atatttgaaa taacaataaa      1440
237 aattgccacc actgaattta ttgagcattt gctgtgcttt aggcactaac ccaggttctt      1500
238 taaatatttg gtcttattcg atctgtataa atagccatct atgagaaagg gactattatt      1560
239 gcccttattt tacaaatgag gccaatgagg cccagagagg ttaactaagt tgcccaaaat      1620
240 catacagccc actagtggca gagcaggatg caaaccagg cttgcctcgt tcccaagccc      1680
241 acatgtcggt tgcattgggt tggaggtgtg catgtgttta gtcattagca tgttatatga      1740
242 taagcaagtt ttgaaacata gaaacttaaa atgtgccatt aagaaaagta caggcaaggt      1800
243 tttccaaggg gaggtgtgga cctccggaca aatttttaag aactaattat aaatacttaa      1860
244 aaatgggaat agaagacaa cctaactacc tgaacagttt tagagatgac tcatgcccac      1920
245 cctctaaaac ccaaacaaaa acaacaaagt caagaaaacc catgaaatct tagcaagcga      1980
246 tttctatgta cttgtgaaaa ggatttcttt accattctaa tgggatttat gccaaccata      2040
247 gagggctcag tgcccctccc atgggggtgg tagtgagtac agagctgagc tcaccggcca      2100
248 tctgcagctt catgttatca agctccagtt tgtccttgga gcaaggttat ctgggacatg      2160
249 agcagaggca ttgctttctg caatggacag ttctttctgc ctgcatacct agctccttga      2220
250 taactttaaa taccatttta tagccacact ggagttttga agacctcaat atgcaaatat      2280

```

## RAW SEQUENCE LISTING

DATE: 07/25/2005

PATENT APPLICATION: US/09/890,836B

TIME: 11:20:35

Input Set : A:\pto.kd.TXT

Output Set: N:\CRF4\07252005\I890836B.raw

251	tactcaggtt	ctgattactt	gtctgctcca	tgataacaca	ctctaaaagc	aatgaatggg	2340
252	gcttatttgt	agagaactga	agcattttta	gcttttgctc	aggaatccct	ggtagcttcc	2400
253	tgtgacttgc	aagatattag	tgatgggtca	agaaacagga	cccccatca	gcataacata	2460
254	cgcagtgcct	cagtagtcca	tcaggcagaa	aaaactgcag	atggcacatg	gaaatgacca	2520
255	gcggcggaag	ataccccgac	agtgtgggca	gttctatttc	agcagcaatc	aagagggggc	2580
256	ctggagccac	tcaatcaagt	ggagcaggat	gggagcaagc	actgtgcaga	ccaatgcaat	2640
257	ccccagttaa	cacaaaaaat	aaataaaaga	gatgagattc	agtctcttga	ctgtgactga	2700
258	ctgggagctt	tatagctgat	gcttgtgtct	tttctccatt	ttatttaatt	aggaaaagaa	2760
259	atgcttatca	cacactctac	gtgtgaggta	caacctccac	aggaaagggt	gttaggaaca	2820
260	tttcaacttc	tagaagtttc	taaacataag	gtaaattccat	ctttgtcctt	gggatcactg	2880
261	cacatctcag	aaaggcaaat	aaatcagtaa	ttgggtgggca	taattactag	ctcatggact	2940
262	gacaaggtct	acactatttc	gaatctcaca	gaagtaagcc	atgggacaga	tagagtctga	3000
263	tagtggtgcc	ccgtttcctg	gaggtcacac	ttactcatcc	ccctggaccc	tggtgttctc	3060
264	atgattgtca	gagagtttgc	tgggaaccagg	tcagcccagt	ttcccttccc	ctgaaaaatc	3120
265	ctccaatggc	tcgcaccaag	actagagatg	caagtgcag	cacatccacc	ctctcagcag	3180
266	ccaggttttg	cgttccataa	tgtcacgtac	ccccagtcac	accaatctcc	ttggagctct	3240
267	ccagacaggc	tgccatgtgt	ggtcggccct	ctgtgcttgt	gctccttggg	ttgccaaagc	3300
268	tggaaatgcc	tttctccatg	attgtactct	gggaattctg	tgtgtctttc	gagatgaagc	3360
269	tccctcaccc	tggaaattct	gcctctcttt	ccaggtccag	ctcctgtggc	tgaataccct	3420
270	tggctgactg	aacattcttg	ctggggccaag	tcttaatcat	ctctaaatcc	ctctggtgcc	3480
271	ccgacagtat	ctagcccagg	caaagggtct	agcaaatact	tgcaaaatcc	aataaaactt	3540
272	actatgttac	tagcttggca	tgatgttcta	ggcacttggg	agattataat	ctggtgagca	3600
273	ttgtgctagt	cttttttttg	ggataaacac	caatgataaa	ctgagccttt	actctcattt	3660
274	tagcacatct	actcatctct	tttcaatgct	gggtgggttta	taaaacccat	cagtagaaca	3720
275	gagagtgtac	ataatcatat	gggtgaaaata	acatcagcta	acatatttac	tgaacatgct	3780
276	ttagtgtgct	gggcactgaa	ctctgtgcac	atgtgaattt	gagatagatt	gttcctagct	3840
277	aataagatga	ggaagtggag	atgggcttac	tcaagtcaca	caatagcaag	atgggggtaca	3900
278	gacagaaacc	aagctagaaa	ccaagcaacc	cctgggtttg	gaaatgcatg	ggctcctcct	3960
279	ctgcacatgg	cgaggagcag	tcagggtgctc	ctccttctct	catactgaaa	taactctgca	4020
280	cttttggtta	ttctgtgaca	ctctgtgcta	ttctgtagct	caaattggctc	tggtgcaagg	4080
281	agctcagatt	atgactaacc	cccatagata	ttcagctgct	ttgcaagaag	tggtgaatg	4140
282	ctctggcttt	ataaattatt	gactagattg	gatattggcc	caatctccac	tctggtgatt	4200
283	cgggaaggagg	catatgcaca	tttgcaagg	tatagtagtg	cactctaatt	ccactggctt	4260
284	ctgagagctt	gtaggtttct	tgacttaate	attctggaat	taaggtaatg	gacccctcaac	4320
285	accttttctt	tccttggcct	ttactaacc	tgtaacagaa	atgagcagag	aaaacccaag	4380
286	aaagcgaact	ggagacttga	tgagtgtgtc	aaagatgctc	agagtccaag	gtcctctgtg	4440
287	gtcactgac	ttcagaagcc	aacctccgtt	gttcaagtca	cttgtgaggt	tactatgcta	4500
288	gagcactaaa	tattatccag	atagcccaaa	gaggtgaagg	cagacatgtg	gaagaacctg	4560
289	gatttttggg	caagttgatg	aatgcctcct	gccccatctc	aaagagaggt	gataggagac	4620
290	aacttttgtga	atttgaaata	atgcaccggg	gaaacaggaa	aacgtaatgt	aagtcacgct	4680
291	tcttggcttt	tttcttgcca	ttacctact	tggccaagtg	caaattgggt	ttcaatatat	4740
292	cataagtatg	catctattaa	taacaatgca	agaaagctgt	acaactgaag	tctgagattt	4800
293	tgtaagaaac	agaatctctg	taagcatcac	catccaacag	aacttctctg	gttgatgctg	4860
294	aatcatccca	gaaagaaggc	gcgccagctc	tgcaggatct	tcaagtctgg	ggtgccacca	4920
295	gcaagcgacg	gtcctccatg	ggctcttcac	cttacggcag	tgtccagagg	caccgccagt	4980
296	cctctgctcc	tatgctgggtc	ctgctgtccc	tggcaaaagg	agccagagca	ttctctccag	5040
297	gcctcccag	gaggtgctt	cctttgtttt	gcagatggag	gctcccatcc	tttgttctga	5100
298	atcaatgtgc	tccaaagata	agccccaaga	aaacagttgt	tgccttttga	cactgacaat	5160
299	tagaatcggt	ggaaaatgga	gaaaacagga	aatggcaaat	ggtttcagtg	accaggagga	5220

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/890,836B

DATE: 07/25/2005  
TIME: 11:20:36

Input Set : A:\pto.kd.TXT  
Output Set: N:\CRF4\07252005\I890836B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 6,7,8,9,10,11,12,13



**VERIFICATION SUMMARY**

DATE: 07/25/2005

PATENT APPLICATION: US/09/890,836B

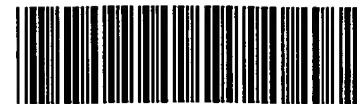
TIME: 11:20:36

Input Set : A:\pto.kd.TXT

Output Set: N:\CRF4\07252005\I890836B.raw

L:37 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:41 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

Raw Sequence Listing before editing,  
for reference only



IFW16

## RAW SEQUENCE LISTING

DATE: 07/19/2005

PATENT APPLICATION: US/09/890,836B

TIME: 11:18:07

Input Set : A:\PTO.RJ.TXT

Output Set: N:\CRF4\07192005\I890836B.raw

4 <110> APPLICANT: Andrew Bett  
 5 Volker Sandig  
 6 Rima Youil  
 8 <120> TITLE OF INVENTION: IMPROVED HELPER DEPENDENT VECTOR SYSTEM  
 9 FOR GENE THERAPY  
 11 <130> FILE REFERENCE: 20377YP  
 13 <140> CURRENT APPLICATION NUMBER: US 09/890,836B  
 14 <141> CURRENT FILING DATE: 2001-08-03  
 16 <150> PRIOR APPLICATION NUMBER: PCT/US00/02405  
 17 <151> PRIOR FILING DATE: 2000-01-31  
 19 <150> PRIOR APPLICATION NUMBER: 60/138,134  
 20 <151> PRIOR FILING DATE: 1999-06-08  
 22 <150> PRIOR APPLICATION NUMBER: 60/118,601  
 23 <151> PRIOR FILING DATE: 1999-02-04  
 25 <160> NUMBER OF SEQ ID NOS: 17  
 27 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply  
 Corrected Diskette Needed

(pg 1-2)

## ERRORED SEQUENCES

66 <210> SEQ ID NO: 4  
 67 <211> LENGTH: 158  
 68 <212> TYPE: DNA  
 69 <213> ORGANISM: Artificial Sequence  
 71 <220> FEATURE:  
 72 <223> OTHER INFORMATION: Synthetic packaging signal  
 74 <400> SEQUENCE: 4  
 E--> 75 gtacacagga agtgactttt aacgcgcggt ttgttacgga tgttgtagta aatttgtcta  
 W--> 76 ~~60ggcgagta agatttgacc gtttacgcgg ggactttgaa taagagcgag tgaatctga~~  
 E--> 77 ~~120ataattttgt tgtactcata ggcgtaatc tctagacg~~ 158  
 79 <210> SEQ ID NO: 5  
 80 <211> LENGTH: 158  
 81 <212> TYPE: DNA  
 82 <213> ORGANISM: Artificial Sequence  
 84 <220> FEATURE:  
 85 <223> OTHER INFORMATION: Adenovirus 5  
 87 <400> SEQUENCE: 5  
 E--> 88 gtacacagga agtgacaatt ttgcgcggt tttaggcgga tgttgtagta aatttgggag  
 W--> 89 ~~60taaccgagta agatttggcc attttcgcgg gaaaactgaa taagaggaag tgaatctga~~  
 E--> 90 ~~120ataattttgt gttactcata ggcgtaatc tctagacg~~ 158  
 92 <210> SEQ ID NO: 6  
 93 <211> LENGTH: 65  
 94 <212> TYPE: DNA

inserted  
 indentation  
 Same

Same  
 error

## RAW SEQUENCE LISTING

DATE: 07/19/2005

PATENT APPLICATION: US/09/890,836B

TIME: 11:18:07

Input Set : A:\PTO.RJ.TXT

Output Set: N:\CRF4\07192005\I890836B.raw

95 &lt;213&gt; ORGANISM: Artificial Sequence

97 &lt;220&gt; FEATURE:

98 &lt;223&gt; OTHER INFORMATION: Linker

100 &lt;400&gt; SEQUENCE: 6

W--&gt; 101 agctcggccg attattggcg cgccagatct gcggccgctt ctagaaacgc gtgaattcgg

60cgcca

E--&gt; 102 65

104 &lt;210&gt; SEQ ID NO: 7

105 &lt;211&gt; LENGTH: 65

106 &lt;212&gt; TYPE: DNA

107 &lt;213&gt; ORGANISM: Artificial Sequence

109 &lt;220&gt; FEATURE:

110 &lt;223&gt; OTHER INFORMATION: Linker

112 &lt;400&gt; SEQUENCE: 7

W--&gt; 113 agcttggcgc cgaattcacg cgtttctaga agcggccgca gatctggcgc gccataatc

60ggccg

E--&gt; 114 65

Same  
Error

**RAW SEQUENCE LISTING ERROR SUMMARY**  
**PATENT APPLICATION: US/09/890,836B**

**DATE: 07/19/2005**  
**TIME: 11:18:08**

Input Set : A:\PTO.RJ.TXT  
Output Set: N:\CRF4\07192005\I890836B.raw

**Invalid Line Length:**

**The rules require that a line not exceed 72 characters in length. This includes spaces.**

Seq#:6; Line(s) 101

Seq#:7; Line(s) 113

## VERIFICATION SUMMARY

DATE: 07/19/2005

PATENT APPLICATION: US/09/890,836B

TIME: 11:18:08

Input Set : A:\PTO.RJ.TXT

Output Set: N:\CRF4\07192005\I890836B.raw

L:37 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:41 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:75 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:4  
L:76 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6  
L:77 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:4  
M:254 Repeated in SeqNo=4  
L:77 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3  
L:77 M:252 E: No. of Seq. differs, <211> LENGTH:Input:158 Found:98 SEQ:4  
L:88 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:60 SEQ:5  
L:89 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:6  
L:90 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5  
M:254 Repeated in SeqNo=5  
L:90 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3  
L:90 M:252 E: No. of Seq. differs, <211> LENGTH:Input:158 Found:98 SEQ:5  
L:101 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:7  
L:102 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:6  
L:102 M:301 E: (44) No Sequence Data was Shown, SEQ ID:6  
L:102 M:252 E: No. of Seq. differs, <211> LENGTH:Input:65 Found:0 SEQ:6  
L:113 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:7  
L:114 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:7  
L:114 M:301 E: (44) No Sequence Data was Shown, SEQ ID:7  
L:114 M:252 E: No. of Seq. differs, <211> LENGTH:Input:65 Found:0 SEQ:7